

UNDERSEA FEATURE NAME PROPOSAL
(See IHO-IOC Publication B-6 and NOTE overleaf)

Note: The boxes will expand as you fill the form.

Name Proposed:	Leyuan Guyot	Ocean or Sea:	Central Pacific Ocean
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Geometry that best defines the feature (Yes/No) :						
Point	Line	Polygon	Multiple points	Multiple lines*	Multiple polygons*	Combination of geometries*
		Yes				

* Geometry should be clearly distinguished when providing the coordinates below.

	Lat. (e.g. 63°32.6'N)	Long. (e.g. 046°21.3'W)
Coordinates:	20°16.3'N (Top)	172°08.6'E (Top)
	20°15.2'N (Bottom)	172°05.6'E (Bottom)
	20°13.4'N	172°06.1'E
	20°12.7'N	172°08.5'E
	20°13.3'N	172°10.9'E
	20°15.0'N	172°11.6'E
	20°15.8'N	172°12.7'E
	20°17.3'N	172°12.2'E
	20°19.1'N	172°11.1'E
	20°21.0'N	172°10.5'E
	20°22.9'N	172°09.8'E
	20°23.3'N	172°08.0'E
	20°22.7'N	172°05.8'E
	20°22.0'N	172°04.2'E
	20°20.3'N	172°04.8'E
	20°18.2'N	172°04.6'E
20°15.2'N	172°05.6'E	

Feature Description:	Maximum Depth:	3200 m	Steepness :	
	Minimum Depth :	1508 m	Shape :	
	Total Relief :	1692 m	Dimension/Size :	19 km * 11 km

Associated Features:	Leyuan Guyot has an irregular overlook plane shape and develops three ridges extending towards NW, NE, and E respectively. It is located in the west of the Central Pacific Seamount Area, and at 230km west to the Ewing Seamount. The top platform is flat while the slopes are steep.
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Chart/Map References:	Shown Named on Map/Chart:	
	Shown Unnamed on Map/Chart:	GEBCO 5.06
	Within Area of Map/Chart:	

Reason for Choice of Name (if a person, state how associated with the feature to be named):	Leyuan comes from a poem named Heming in Shijing-Xiaoya. Shijing is a collection of ancient Chinese Poems from 11 th century B.C. to 6 th century B.C. Heming is a scenic and lyric poetry, poem depicts a landscape painting by a combination of green mountain, deep river, flying crane, grey trees and so on. This guyot is named "Leyuan", means the picturesque scenery, beautiful gardens.
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Discovery Facts:	Discovery Date:	Aug. 2001
	Discoverer (Individual, Ship):	Chinese R/V Dayang Yihao

Supporting Survey Data, including Track Controls:	Date of Survey:	Aug. 2001
	Survey Ship:	Chinese R/V Dayang Yihao
	Sounding Equipment:	Multi-beam Echo Sounding System (Seabeam2112.360)
	Type of Navigation:	Oministar DGPS
	Estimated Horizontal Accuracy (nm):	0.0053 sea mile
	Survey Track Spacing:	5 nm
	Supporting material can be submitted as Annex in analog or digital form: see Annex	

Proposer(s):	Name(s):	China Ocean Mineral Resources R&D Association (COMRA)
	Date:	July 1, 2017
	E-mail:	jin@comra.org
	Organization and Address:	Fuxingmenwai Street No.1, Beijing, China China Ocean Mineral Resources R&D Association
	Concurren (name, e-mail, organization and address):	

Remarks:	<p>The proposal has been reviewed and approved by Sub-Committee on Undersea Feature Names of China Committee on Geographical Names (CCUFN).</p> <p>And the proposal has also been published in "Chinese Gazetteer of Undersea Features on the International Seabed(2016)".</p> <p>No.1, Fuxingmenwai Street, Xicheng District, Beijing, China, 100860 heyunxu@sina.com</p>
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NOTE : This form should be forwarded, when completed :

- a) **If the undersea feature is located inside the external limit of the territorial sea** :-
to your "National Authority for Approval of Undersea Feature Names" (see Publication B-6) or, if this does not exist or is not known, either to the IHO or to the IOC (see addresses below);
- b) **If at least 50 % of the undersea feature is located outside the external limits of the territorial sea** :-
to the IHO or to the IOC, at the following addresses :

International Hydrographic Organization (IHO) 4, Quai Antoine 1er B.P. 445 MC 98011 MONACO CEDEX Principality of MONACO Fax: +377 93 10 81 40 E-mail: info@iho.int Web: www.iho.int	Intergovernmental Oceanographic Commission (IOC) UNESCO Place de Fontenoy 75700 PARIS France Fax: +33 1 45 68 58 12 E-mail: info@unesco.org Web: http://ioc-unesco.org/
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ANNEX

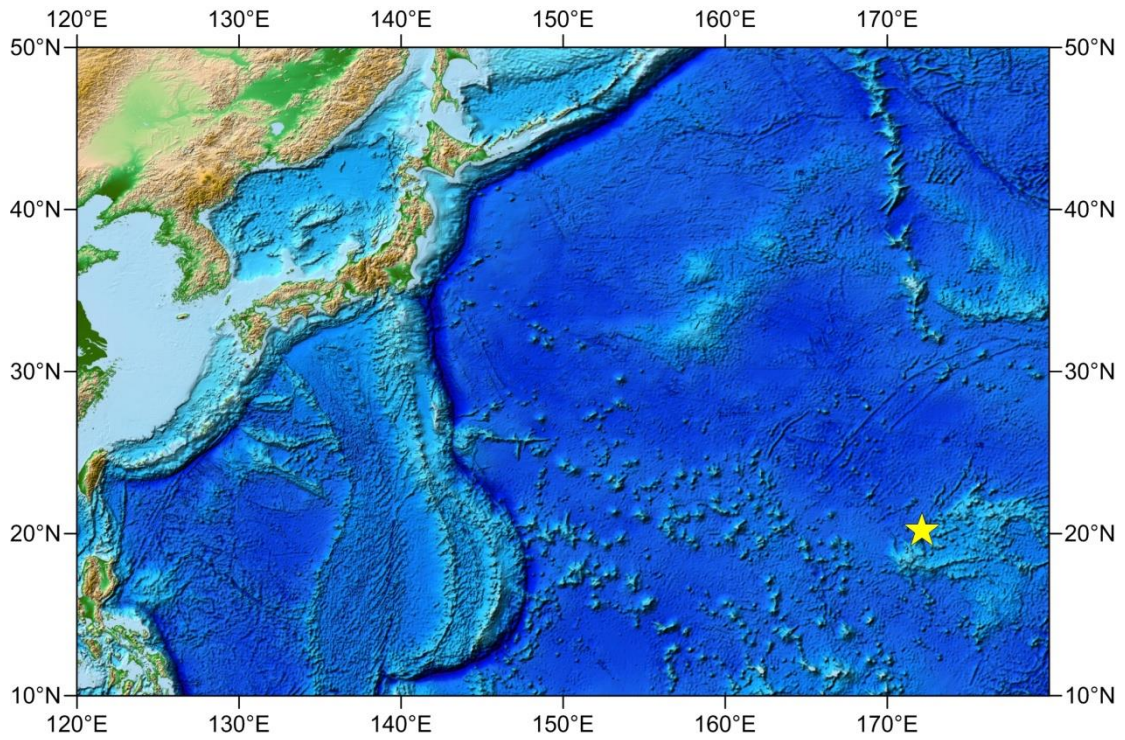


Fig. 1 Location of Leyuan Guyot

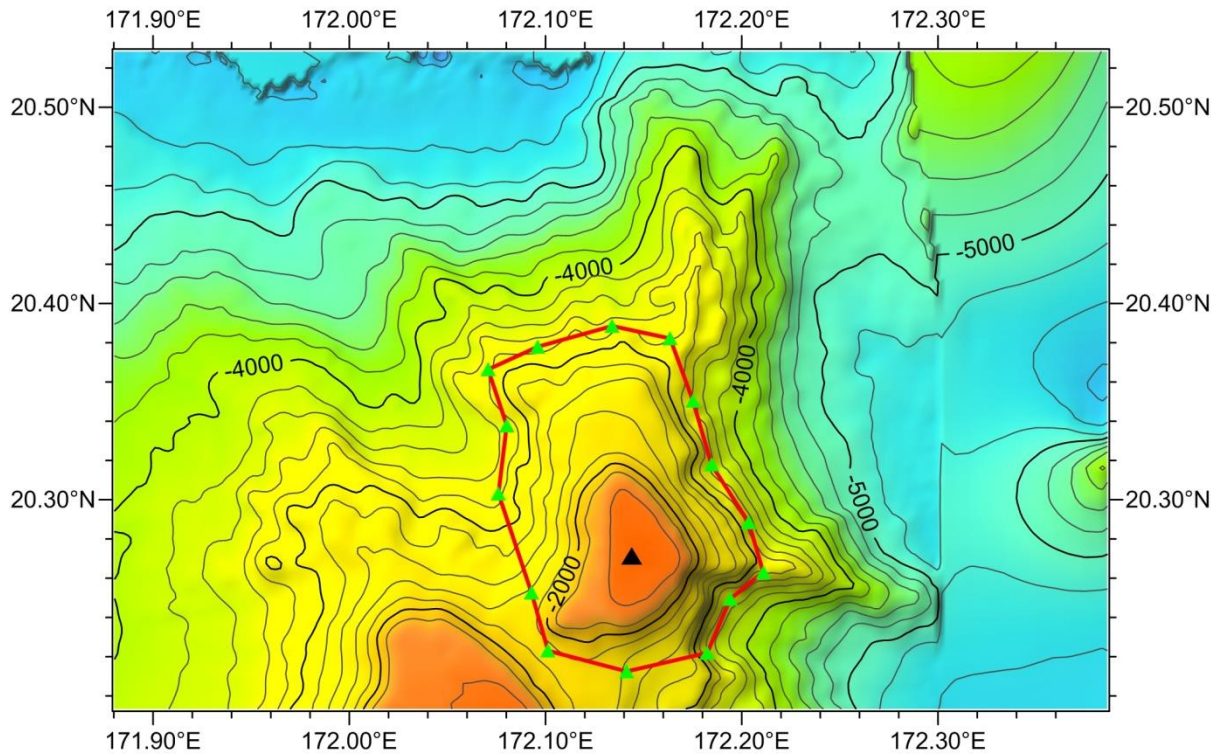


Fig. 2 Bathymetric map of Leyuan Guyot (Contours are in 200 m)

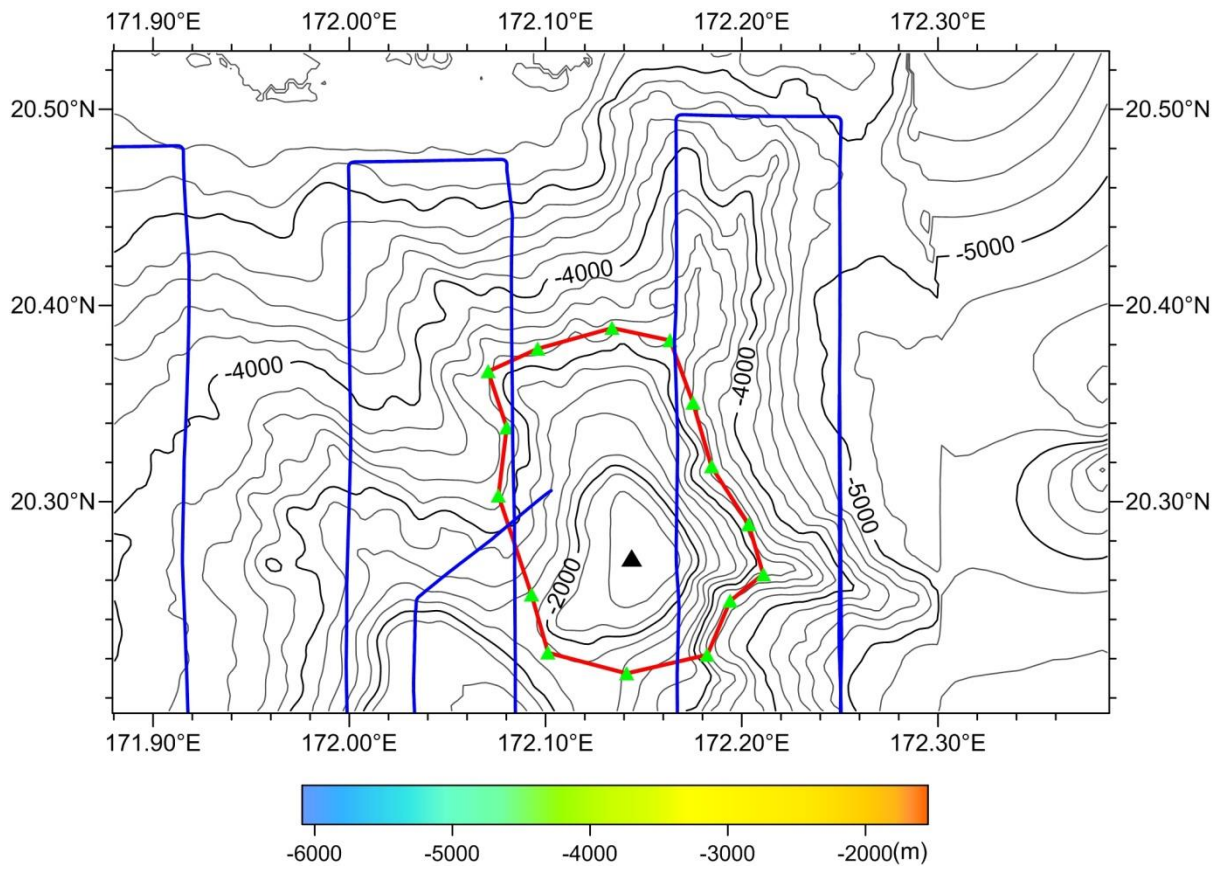


Fig. 3 Bathymetric and survey line map of Leyuan Guyot (Contours are in 200 m, blue ones are survey lines)

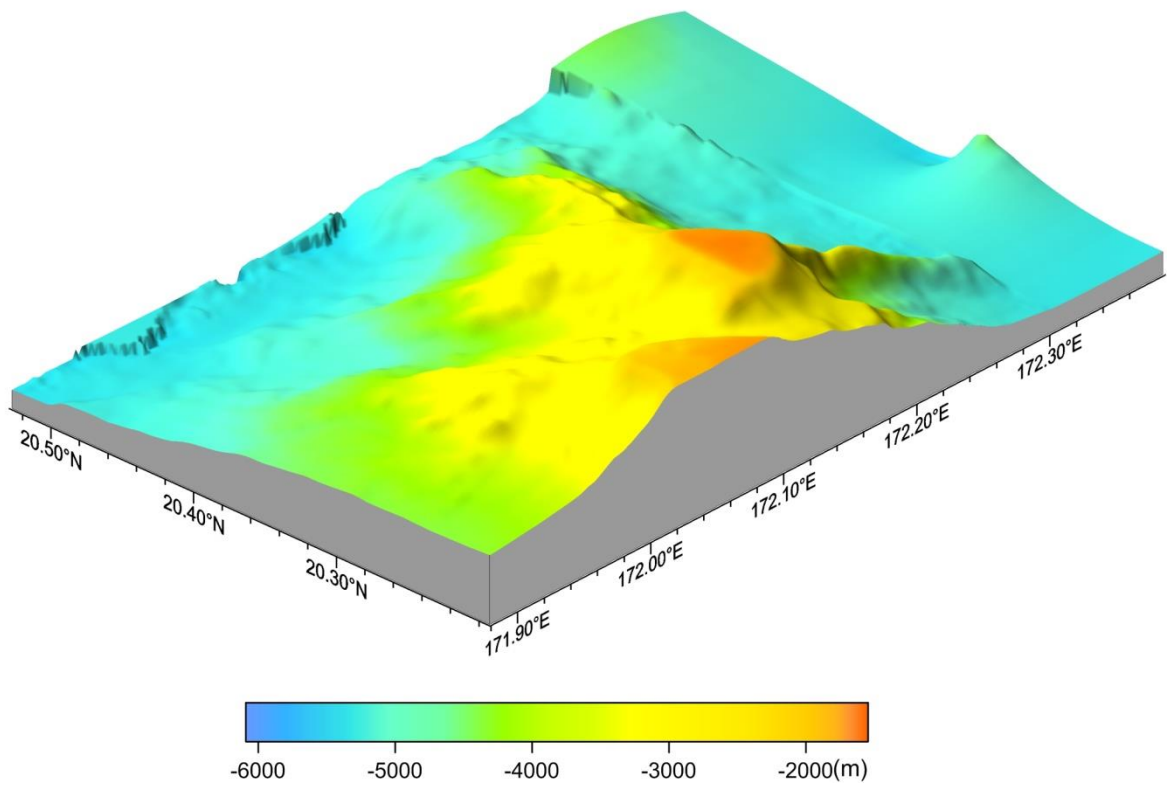


Fig. 4 3-D topography map of Leyuan Guyot

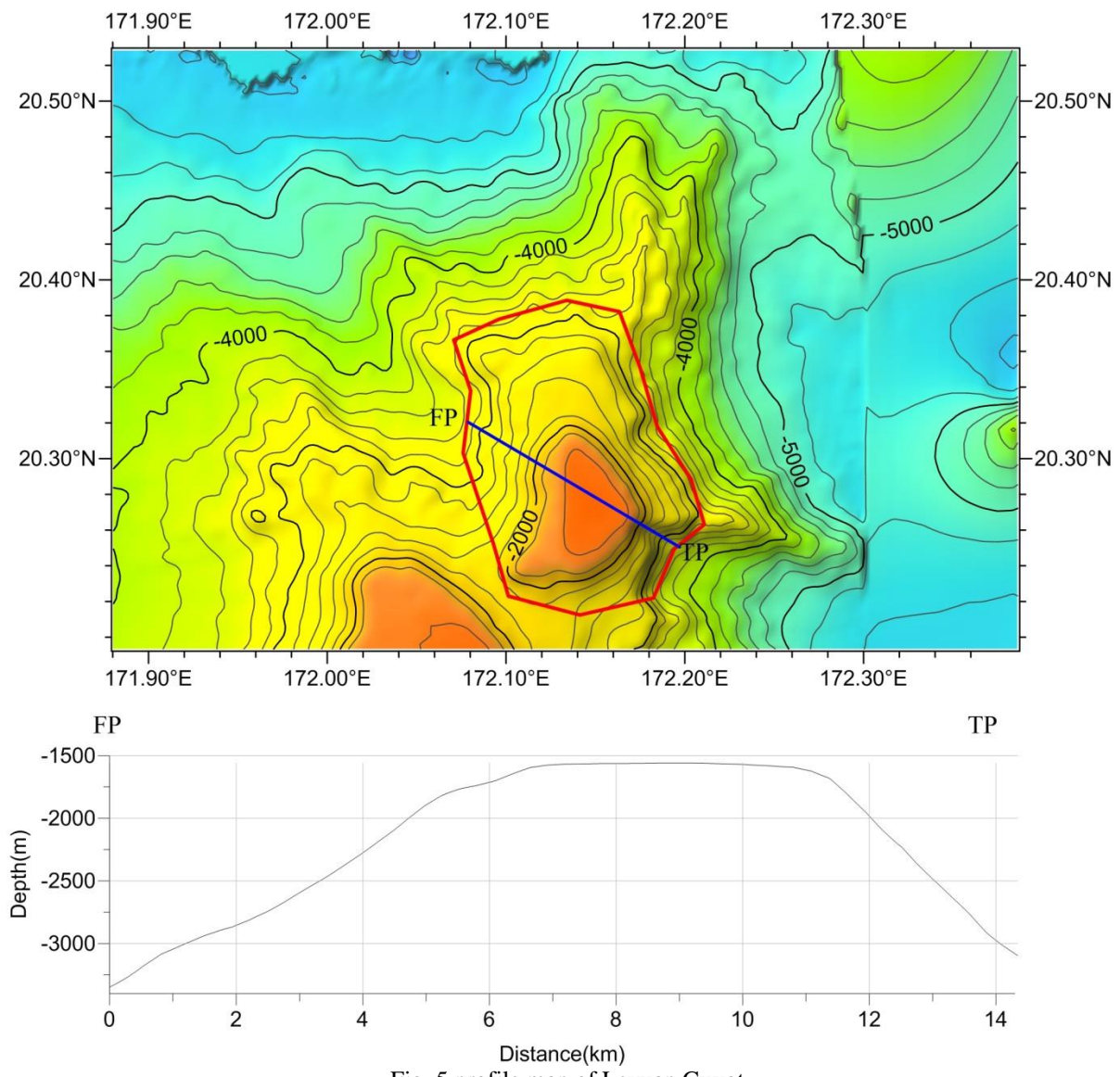


Fig. 5 profile map of Leyuan Guyot